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84-212321/34 C04 UAGR 17.09.82
UKR AGRIC ACAD *SU 1063-799-A
17.09.82-SU-496031 (30.12.83) C05c-01/02
Granulated ammonium nitrate stabilisation - involves using ferric salt as iron-contg. additive

C(5-A3A, 5-B2A2, 5-B2A4, 5-C1, 5-C2, 12-M6, 12-M11, 12-N9)

0 8 1

C84-089103

The supplementary additive is polyphosphoric acid or ammonium polyphosphate. The ratio polyphosphate:ferric salts = (1:(0.1-0.5). The pref. ferric salt is nitrate, sulphate or citrate and the polyphosphate additive contains over 80% P2O5 in the polyanion. The ferric salt and polyphosphoric cpo. are pref. added at 1-4% on the wt. of ammonium nitrate. As previously, the stabilisation of granulated ammonium nitrate involves adding iron-contg. additive to its fusion.

USE/ADVANTAGE - to eliminate III/IV modified transitions and simultaneously improve physicomechaical and agrochemical properties of the fertiliser, e.g. in agriculture.

Typically, the proposed method increases the economic efficiency by 3-5% (by reducing loss on storage, transport and application) and increases the mechanical strength (by 10 fold) and noncaking on storage. The prod. has high agrochemical properties. Bul.48/30.12.83. (3pp Dwg.No.0/0)